

# Six Studies Showing Ill-Health Effects From Mobile Phone Base Station Masts

Document produced by Dr Grahame Blackwell 21st Feb 2005

## **1. Study of the health of people living in the vicinity of mobile phone base stations.**

Santini et al. Pathol Biol (Paris) [Pathologie Biologie (Paris)] 2002; 50: 369 – 73

Found significant health effects on people living within 300 metres of mobile phone base stations. Conclusions include the recommendation:

***“... it is advisable that mobile phone base stations not be sited closer than 300 meters to populations”***

## **2. “Effects of Global Communications System Radio-Frequency Fields On Well Being and Cognitive Function of Human Subjects With and Without Subjective Complaints”** Netherlands Organization for Applied Scientific Research (TNO)

Study for the Netherlands Ministries of Economic Affairs, Housing, Spatial Planning and the Environment, and Health, Welfare and Sport (September 2003)

Found significant **effects on wellbeing**, according to a number of internationally-recognised criteria (including headaches, muscle fatigue/pain, dizziness etc) from 3G mast emissions well below accepted ‘safety’ levels (less than 1/25,000th of ICNIRP guidelines).

Those who had previously been noted as ‘*electrosensitive*’ under a scheme in that country were shown to have more pronounced ill-effects, though others were also shown to experience significant effects.

## **3. THE MICROWAVE SYNDROME - FURTHER ASPECTS OF A SPANISH STUDY**

Oberfeld Gerd(1), Navarro A. Enrique(3), Portoles Manuel(2), Maestu Ceferino(4), Gomez Perretta Claudio(2)

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Presented at an International Conference in Kos (Greece), 2004

This study found significant ill-health effects in those living in the vicinity of two GSM mobile phone base stations. They observed that:

***“The strongest five associations found are depressive tendency, fatigue, sleeping disorder, difficulty in concentration and cardiovascular problems.”***

As their conclusion the research team wrote:

***“Based on the data of this study the advice would be to strive for levels not higher than 0.02 V/m for the sum total, which is equal to a power density of 0.0001  $\mu\text{W}/\text{cm}^2$  or 1  $\mu\text{W}/\text{m}^2$ , which is the indoor exposure value for GSM base stations proposed on empirical evidence by the Public Health Office of the Government of***

*Salzburg in 2002.”*

**4. INCREASED INCIDENCE OF CANCER NEAR A CELL-PHONE TRANSMITTER STATION.** Ronni Wolf MD(1), Danny Wolf MD(2)

1. The Dermatology Unit, Kaplan Medical Center, Rehovot, and the Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv, ISRAEL.

2. The Pediatric Outpatient Clinic, Hasharon Region, Kupat Holim, ISRAEL.

Published in International Journal of Cancer Prevention Volume 1, No. 2, April 2004

**This study, based on medical records of people living within 350 metres of a long-established phone mast, showed a fourfold increased incidence of cancer generally compared with the general population of Israel, and a tenfold increase specifically among women, compared with the surrounding locality further from the mast.**

**5. Naila Study, Germany (November 2004)**

Report by researchers (five medical doctors)

Following the call by Wolfram König, President of the Bundesamt für Strahlenschutz (Federal Agency for radiation protection), to all doctors of medicine to collaborate actively in the assessment of the risk posed by cellular radiation, the aim of our study was to examine whether people living close to cellular transmitter antennas were exposed to a heightened risk of taking ill with malignant tumors.

The basis of the data used for the survey were PC files of the case histories of patients between the years 1994 and 2004. While adhering to data protection, the personal data of almost 1.000 patients were evaluated for this study, which was completed without any external financial support. It is intended to continue the project in the form of a register.

The result of the study shows that the proportion of newly developing cancer cases was significantly higher among those patients **who had lived during the past ten years at a distance of up to 400 metres from the cellular transmitter site**, which has been in operation since 1993, compared to those patients living further away, and that the patients fell ill on average 8 years earlier.

In the years 1999-2004, i.e. after five years' operation of the transmitting installation, **the relative risk of getting cancer had trebled for the residents of the area in the proximity of the installation compared to the inhabitants of Naila outside the area.**

**6. Austrian Study** Press Release 1st May 2005

The radiation of a cell phone base station at a distance of 80 metres causes significant changes of the electrical currents in the brains of testees (measured by electroencephalogram, EEG). All the testees said they felt unwell during the radiation, some of them seriously.

That is the result of an investigation by a team of Austrian scientists. They measured alpha 1 (8 to 10 Hz), alpha 2 (10 to 12 Hz) and beta waves (13 to 20 Hz). A small density of GSM 900 and GSM 1800 radiation already caused several significant changes in these three frequency ranges. This means the body is stressed - temporarily

this may have some positive effect, in the long run however stress certainly reduces the quality of life, capacity for work and state of health.

The results of the research will be published in international scientific magazines and confirmed by replication. The research was financed by Land Salzburg in Austria. The testees were nine women and three men between 20 and 78, who considered themselves '*electrosensitive*'. They were invited to sit in a chair, eyes covered and ears plugged. Of course they were not aware of the sequence of the tests.

The side of the room directed at the cell phone base station was shielded against radiation, except for a small part which could be (un)shielded easily. In the first phase, the radiation density near the head was 26 mikroWatt/m<sup>2</sup>, in the second phase 3327 mikroWatt/m<sup>2</sup> and in the third phase 26 mikroWatt/m<sup>2</sup> again. Several other environmental parameters were measured to be sure they could not influence the results, such as radiation by television and FM-radio, noise, CO<sub>2</sub>, temperature, relative humidity, low frequency magnetic fields and soherics (electrical discharges in the atmosphere, possibly causing radiation).

During the second phase the parameters of all the brainwaves, measured by EEG, changed significantly. Afterwards the testees were asked to describe their experiences. All of them felt unwell during the second phase. They reported **symptoms like buzzing in the head, palpitations of the heart, unwellness, lightheadedness, anxiety, breathlessness, respiratory problems, nervousness, agitation, headache, tinnitus, heat sensation and depression.**

**According to the scientists, this is the first worldwide proof of significant changes of the electrical currents in the brain by a cell phone base station at a distance of 80 metres.**

It has been scientifically established before that the radiation of cell phone base stations leads to unwellness and health complaints.

**NOTE:** These are the **only studies** known of that specifically consider the effects of masts on people. All six of these studies show clear and significant ill-health effects. **There are no known studies relating to health effects of masts that do not show such ill-health effects.**

In this respect, any statement by industry or official sources that claims (or suggests) that:

- (a) There is no evidence of ill-health effects from masts; or
- (b) The overwhelming evidence is that masts do not cause ill-health effects;

**is completely and blatantly untrue.**

Dr Grahame Blackwell - Adviser to several European countries

**After all this on dangers from the bioeffects on humans from EMFs let us take a completely new perspective.**